

Title (en)

COILED HEAT EXCHANGER HAVING INSERTS BETWEEN THE SHROUD AND THE LAST PIPE LAYER

Title (de)

GEWICKELTER WÄRMEÜBERTRAGER MIT EINBAUTEN ZWISCHEN HEMD UND LETZTER ROHRLAGE

Title (fr)

ÉCHANGEUR DE CHALEUR SPIRALÉ MUNI D'ÉLÉMENTS INTÉGRÉS ENTRE LA CHEMISE ET LA DERNIÈRE COUCHE DE TUBES

Publication

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Application

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Abstract (en)

[origin: WO2017194202A1] The invention relates to a heat exchanger (1) for the indirect transfer of heat between a first fluid (S) and at least one second fluid (S'), with a jacket (10) which extends along a longitudinal axis (z) and which encloses a jacket space (M) for accommodating the first fluid (S), with a tube bundle (2) arranged in the jacket space (M) and having a plurality of tubes (20) for accommodating the at least one second fluid (S'), wherein the tubes (20) form multiple tube layers, and with a shroud (3) which is arranged in the jacket space (M) and encloses an outermost, as seen in the radial direction (R) of the tube bundle (2), tube layer (200) of the tube bundle (2), wherein spacers (60) extending along the longitudinal axis (z) are arranged between the shroud (3) and the outermost tube layer (200), an interspace (M') being present between any two spacers (60) that are adjacent in the circumferential direction of the shroud (3), and between the shroud (3) and the uppermost tube layer (200), wherein according to the invention a flow obstruction (300) is arranged in the respective interspace (M') and is designed to prevent or suppress a flow of the first fluid (S) in the respective interspace (M'), at least over a part section, extending along the longitudinal axis (z), of the respective interspace (M').

IPC 8 full level

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